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NiceZyme View of ENZYME: EC 2.3.1.4

Official Name						
Glucosamine 6-phosphate N-acety	vitransferase.					
Alternative Name(s)						
Aminodeoxyglucosephosphate ac	etyltransferase.					
D-glucosamine-6-P N-acetyltransfe	erase.					
Glucosamine 6-phosphate acetyla	se.					
Glucosamine-6-phosphate acetyla	se.					
Glucosamine-phosphate N-acetylt	ransferase.					
N-acetylglucosamine-6-phosphate	synthase.					
Phosphoglucosamine acetylase.						
Phosphoglucosamine N-acetylase	· •					
Phosphoglucosamine transacetyla	ise.					
Reaction catalysed						
Acetyl-CoA + D-glucosamine 6-phos	phate <=> CoA + N-acetyl-D-glucosamine 6-phosphate					
Cross-references						
Biochemical Pathways; map number(s)	D4 .					
BRENDA	2.3.1.4					
PUMA2	2.3.1.4					
PRIAM enzyme-specific profiles	2.3.1.4					
KEGG Ligand Database for Enzyme Nomenclature	2.3.1.4					
IUBMB Enzyme Nomenclature	2.3.1.4					
IntEnz	2.3.1.4					
MEDLINE	Find literature relating to 2.3.1.4					
MetaCyc	2.3.1.4					
UniProtKB/Swiss-Prot	Q17427, GNA1_CAEEL; O93806, GNA1_CANAL; Q9VAIO, GNA1_DROME; Q96EK6, GNA1_HUMAN; Q5UPZ9, GNA1_MIMIV; Q9JK38, GNA1_MOUSE;					

View entry in original ENZYME format View entry in raw text format (no links)

All UniProtKB/Swiss-Prot entries referenced in this entry, with possibility to download in different formats,

Q5RAL9, GNA1 PONPY; 013738, GNA1 SCHPO; P43577, GNA1 YEAST;

align etc.

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 2.3.1.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 2.3.-.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 2.-.--

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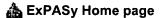
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NiceZyme View of ENZYME: EC 2.6.1.16

Official Name

Glutamine--fructose-6-phosphate transaminase (isomerizing).

Alternative Name(s)

D-fructose-6-phosphate amidotransferase.

GIcN6P synthase.

Glucosamine--fructose-6-phosphate aminotransferase (isomerizing).

Glucosamine-6-phosphate isomerase (glutamine-forming).

Glucosamine-6-phosphate synthase.

Hexosephosphate aminotransferase.

L-glutamine-D-fructose-6-phosphate amidotransferase.

Reaction catalysed

L-glutamine + D-fructose 6-phosphate <=> L-glutamate + D-glucosamine 6-phosphate

Comment(s)

 Although the overall reaction is that of a transferase, the mechanism involves the formation of ketimine between fructose 6-phosphate and a 6-amino group from a lysine residue at the active site, which is subsequently displaced by ammonia (transamidination).

Formerly EC 5.3.1.19.

Cross-references

Biochemical Pathways;

map number(s)

D4

PROSITE

PDOC00406

BRENDA

2.6.1.16

PUMA2

2.6.1.16

PRIAM enzyme-specific

profiles

2.6.1.16

KEGG Ligand Database

for Enzyme

2.6.1.16

Nomenclature

IUBMB Enzyme Nomenclature

2.6.1.16

intEnz

2.6.1.16

MEDLINE

Find literature relating to 2.6.1.16

MetaCyc

2.6.1.16

P55704, GFA1_CANAL; Q09740, GFA1_SCHPO; P14742, GFA1_YEAST, Q77506, GFA1_MINV; Q06210, GFPT1_HUMN; P47856, GFPT1_MOUSE; P62808, GFPT1_RAT; Q6F6U8, GLMS_ACILD; Q7VCQ6, GLMS_AERPE; Q8UEH1, GLMS_AGRT5; Q6F6U8, GLMS_ACILD; Q7VCQ6, GLMS_AERPE; Q8UEH1, GLMS_AGRT5; Q6F6U8, GLMS_ACILD; Q7VCQ6, GLMS_AERPE; Q8UEH1, GLMS_BACC1; Q61912, GLMS_BACC1; Q61912, GLMS_BACC1; Q61912, GLMS_BACC1; Q61912, GLMS_BACC1; Q61914, GLMS_BACC1; Q61912, GLMS_BACC1; Q61914, GLMS_BACC1; Q61912, GLMS_BACC1; Q61914, GLMS_GACC1; Q61914,	; ÷						
P82808, GPPT_RAT; O5F6UB, GIMS_ACIAD; O9VCO, GIMS_AERPE; O8UBH, GIMS_ACIAD; O9VCO, GIMS_AERPE; O8UBH, GIMS_ACIT; O5F6UB, GIMS_ACIAD; O9VCO, GIMS_AERPE; O8UBH, GIMS_BACCI; O8101, GIMS_BACCH; O8101,		P53704,	<pre>GFA1_CANAL;</pre>	Q09740,	<pre>GFA1_SCHPO;</pre>	P14742,	<pre>GFA1_YEAST;</pre>
Q4MMC4, GFPT2 RAT; Q6F6UB, GLMS, ĀCIRD; Q9VCQB, GLMS, ĀRREB; Q8UEHI, GLMS AGRT5; O66648, GLMS, AGUAB; Q8UYNS, GLMS BACCH; Q78749, GLMS BACCH; Q61010, GLMS, BACCR; Q9KG45, GLMS, BACCB; Q6FPL2, GLMS, BACCB; Q61010, GLMS, BACCB; Q9KG45, GLMS, BACCB; Q6F2H6, GLMS, BACCB; Q6ABA1, GLMS, BACCB; Q6F2H6, GLMS, BACCB; Q6ABA1, GLMS, BACCB; Q6F2H6, GLMS, BACCB; Q6F2H6, GLMS, BARCB; Q6F2H6, GLMS, BARCB; Q6F2H6, GLMS, BACCB; Q8ABA1, GLMS, BACCB; Q8KG12, GLMS, BRADA; Q7VR23, GLMS, BRUCAP; Q8ABA1, GLMS, BACCB; Q8KG13, GLMS, BRUCAP; Q9KG14, GLMS, BRUCAP; Q9KG14, GLMS, BRUCAP; Q9F1A4, GLMS, GLMS; Q4KG14, GLMS, GLM		Q7T6X6,	<pre>GFAT_MIMIV;</pre>	Q06210,	<pre>GFPT1_HUMAN;</pre>	P47856,	<pre>GFPT1_MOUSE;</pre>
QBUEH1 GLMS_AGRT5; O66648, GLMS_AQUAE; QB1VM5, GLMS_BACCM; O673749 GLMS_BACCM; O67045, GLMS_GACCM; O67046, GLMS_GACC		P82808,	<pre>GFPT1_RAT;</pre>	094808,	<pre>GFPT2_HUMAN;</pre>	Q9Z2Z9,	<pre>GFPT2_MOUSE;</pre>
O73749, GLMS_BACC1; O81J01, GLMS_BACCR; O98C45, GLMS_BACCB; P39754, GLMS_BACKR; O59C46, GLMS_BACLD; OSEC, C, GUMC, GLMS_BACK; OF CALL OSEC, C, GUMC, GLMS_BACCB; P39754, GLMS_BACCB; Q8AB1, GLMS_BACCB; Q6FZH6, GLMS_BARCB; Q6FZH6, GLMS_BARCB; Q6FZH6, GLMS_BARCB; Q7VRZ3, GLMS_BORPE; Q6FZH6, GLMS_BARCB; Q8FZH7, GLMS_BRUME; Q8FZH7, GLMS_GLMS_BUCAP; P59362, GLMS_BRUSP; Q5PMT4, GLMS_CAMDE; Q5BAV2, GLMS_CAUCR; Q5L589, GLMS_CHLPB; Q6FZH7, GLMS_CHLCV; Q5L589, GLMS_CHLPB; Q6FZH7, GLMS_CHLCV; Q5L589, GLMS_CHLPB; Q6FZH7, GLMS_CHLCV; Q5L589, GLMS_CLOBB; Q8FMZ7, GLMS_CHLPC; Q5RMS_CLOBB; Q6FMZ7, GLMS_CLOBE; Q8MND3, GLMS_CHMS_CHLPC; Q5FM14, GLMS_CMCD; Q5PM3, GLMS_CNDD; Q6FM3, GLMS_CNDD; Q6FM10, GLMS_CORD; Q6FM10, GLMS_CNDD; Q6FM10, GLMS_CNDD; Q6FM10, GLMS_CNDD; Q6FM10, GLMS_FRATT; Q6RG65, GLMS_FUSHN; Q5L590, GLMS_GCM7, Q74GH6, GLMS_GCMS; Q74CA; Q8XG2, GLMS_BCC07, Q74GH6, GLMS_GCMS; Q74CA; Q8XG2, GLMS_BCM7, Q74GH6, GLMS_GCMS; Q74CA; Q8XG2, GLMS_GCMS, Q8XG2, GLM		Q4KMC4,	<pre>GFPT2_RAT;</pre>	Q6F6U8,	<pre>GLMS_ACIAD;</pre>	Q9YCQ6,	<pre>GLMS_AERPE;</pre>
OSHPL2, CLMS_BACHK; OSSP46, SLMS_BACLD; OSMLO7, CLMS_BACKS; OSSP46, SLMS_BACLD; OSMLO7, CLMS_BACKS; OSSP46, SLMS_BACTN; OSS22, GLMS_BARHE; OSSP46, SLMS_BACRS; OSSP46, SLMS_CACRS;				066648,	GLMS_AQUAE;	Q81VN5,	<pre>GLMS_BACAN;</pre>
P39754, GLMS_BACSU; QSAAB1, GLMS_BACTN; QGG322, GLMS_BARHE; Q6F771, GLMS_BORPA; QF07423, GLMS_BORPA; QF0742, GLMS_BORPA; QF0747, GLMS_BORPA; QF0747, GLMS_BORPA; QF0747, GLMS_BURDE; QS7471, GLMS_BURDE; QS7471, GLMS_BURDE; QS7471, GLMS_BURDE; QSA675, GLMS_BUCAP; Q51899, GLMS_BUCBP; Q9PMT4, GLMS_CMLDE; QSA675, GLMS_BUCAP; Q51899, GLMS_BUCBP; Q9PMT4, GLMS_CMLDE; QSA675, GLMS_CHLDY; QS1899, GLMS_CHLDB; Q82127, GLMS_CHLCV; QS1899, GLMS_CHLDB; Q82127, GLMS_CHLCV; QS1899, GLMS_CLOBB; QS2127, GLMS_CHLCV; QS1894, GLMS_CLOBB; QSA674, QS8638, GLMS_CHLDE; Q89012, GLMS_CCHCT; QS0633, GLMS_CORD1; QSA674, QS8602, GLMS_CLOPE; Q8MND3, GLMS_CORD1; Q9F074, GLMS_CLOPE; Q8MND3, GLMS_CORD1; Q9F074, GLMS_CCOPE; Q8MND3, GLMS_CORD1; Q9F074, GLMS_CCOPE; Q8MND3, GLMS_CORD1; Q9F074, GLMS_GE074, QS8602, GLMS_ECV1; QS7074, GLMS_GE074, QS8603, GLMS_HELPY; QS7074, GLMS_GE074, QS8603, GLMS_HELPY; QS7074, GLMS_GE074, QS8603, GLMS_HELPY; QS7074, GLMS_GE074, QS87074, GLMS_LECP1; QS7074, GLM		Q73F49,	<pre>GLMS_BACC1;</pre>	Q81J01,	<pre>GLMS_BACCR;</pre>	Q9KG45,	<pre>GLMS_BACHD;</pre>
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QSRA75, GLMS_BUCAP; P59499, GLMS_BUCBP; QSPMT4, GLMS_CANJE; QSPB24, GLMS_CAUCR; Q51589, GLMS_CHLDR; Q8127, GLMS_CHLCT; QSPMA4, GLMS_CHLMU; Q926U0, GLMS_CHLPN; Q8KG38, GLMS_CLLTE; QSPMM4, GLMS_CLOBB; Q8KG38, GLMS_CLLTE; QSPMM4, GLMS_CLOBB; QSRA77, GLMS_CLCPE; QSNND3, GLMS_CORGI; QSPMS2, GLMS_ECOST; QSSMS2, GLMS_FRATT; QSRGS5, GLMS_FUSNN; Q5L3P0, GLMS_GEOKA; Q7VKK4, GLMS_HAEDU; P44708, GLMS_GLMS_LOYI, QSPUS2, GLMS_GEOKA; Q3VGK4, GLMS_HAEDU; P44708, GLMS_HAEIN; QSPUS0, GLMS_GLMS_IDLO; QSC3P4, GLMS_HELPJ; QSC3F4, GLMS_LCLA; QSC3F4, GLMS_LCLA; QSSSS7, GLMS_LCCP; QSA153, GLMS_LEGPA; QSC3F4, GLMS_LEGPH; QSSXS8, GLMS_LEGPI; QSA153, GLMS_LEGPA; Q72V57, GLMS_LEGPH; QSSXS8, GLMS_LEGPI; QSA032, GLMS_LEIXN; Q72V57, GLMS_LEGPH; QSSXS8, GLMS_LEGPI; QSA032, GLMS_LEIXN; Q72V57, GLMS_LEGPH; QSSSS, GLMS_LEGPI; QSA032, GLMS_LEIXN; Q72V57, GLMS_LEGPH; QSSSS, GLMS_LEGPI; QSA032, GLMS_META; QSSSS, GLMS_LEGPI; QSA032, GLMS_META; QSSSS, GLMS_LEGPI; QSA032, GLMS_META; QSSSS, GLMS_LEGPI; QSA032, GLMS_META; QSSSS, GLMS_M		Q7VRZ3,	<pre>GLMS_BORPE;</pre>	P59362,	<pre>GLMS_BRAJA;</pre>	Q577Y1,	<pre>GLMS_BRUAB;</pre>
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O26273, GLMS_METTH;	UniDrott/D/Swice Brot		_				
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Q72HF4, GLMS_THET2; Q56213, GLMS_THET8; Q8R841, GLMS_THETN; Q56275, GLMS_THIFE; O83833, GLMS_TREPA; Q83IA1, GLMS_TROW8; Q83FU2, GLMS_TROWT; Q9KUM8, GLMS_VIBCH; Q5E279, GLMS_VIBF1; Q87SR3, GLMS_VIBPA; Q8DEF3, GLMS_VIBVU; Q7MP62, GLMS_VIBVY; Q8D3J0, GLMS_WIGBR; Q8PGH9, GLMS_XANAC; Q8PCY1, GLMS_XANCP; Q9PH05, GLMS_XYLFA; Q87F28, GLMS_XYLFT; Q8Z9S8, GLMS_YERPE; Q663R1, GLMS_YERPS; Q5NRH4, GLMS_ZYMMO; Q92ZK3, NODM1_RHIME; P25195, NODM2_RHIME; P94323, NODM_BRAJA; Q52846, NODM_RHILT;			-				_
Q56275, GLMS_THIFE; 083833, GLMS_TREPA; Q83IA1, GLMS_TROW8; Q83FU2, GLMS_TROWT; Q9KUM8, GLMS_VIBCH; Q5E279, GLMS_VIBF1; Q87SR3, GLMS_VIBPA; Q8DEF3, GLMS_VIBVU; Q7MP62, GLMS_VIBVY; Q8D3J0, GLMS_WIGBR; Q8PGH9, GLMS_XANAC; Q8PCY1, GLMS_XANCP; Q9PH05, GLMS_XYLFA; Q87F28, GLMS_XYLFT; Q8Z9S8, GLMS_YERPE; Q663R1, GLMS_YERPS; Q5NRH4, GLMS_ZYMMO; Q92ZK3, NODM1_RHIME; P25195, NODM2_RHIME; P94323, NODM_BRAJA; Q52846, NODM_RHILT;			-				_
Q83FU2, GLMS_TROWT; Q9KUM8, GLMS_VIBCH; Q5E279, GLMS_VIBF1; Q87SR3, GLMS_VIBPA; Q8DEF3, GLMS_VIBVU; Q7MP62, GLMS_VIBVY; Q8D3J0, GLMS_WIGBR; Q8PGH9, GLMS_XANAC; Q8PCY1, GLMS_XANCP; Q9PH05, GLMS_XYLFA; Q87F28, GLMS_XYLFT; Q8Z9S8, GLMS_YERPE; Q663R1, GLMS_YERPS; Q5NRH4, GLMS_ZYMMO; Q92ZK3, NODM1_RHIME; P25195, NODM2_RHIME; P94323, NODM_BRAJA; Q52846, NODM_RHILT;					-		-
Q87SR3, GLMS_VIBPA; Q8DEF3, GLMS_VIBVU; Q7MP62, GLMS_VIBVY; Q8D3J0, GLMS_WIGBR; Q8PGH9, GLMS_XANAC; Q8PCY1, GLMS_XANCP; Q9PH05, GLMS_XYLFA; Q87F28, GLMS_XYLFT; Q8Z9S8, GLMS_YERPE; Q663R1, GLMS_YERPS; Q5NRH4, GLMS_ZYMMO; Q92ZK3, NODM1_RHIME; P25195, NODM2_RHIME; P94323, NODM_BRAJA; Q52846, NODM_RHILT;			-		_		
Q8D3J0, GLMS_WIGBR; Q8PGH9, GLMS_XANAC; Q8PCY1, GLMS_XANCP; Q9PH05, GLMS_XYLFA; Q87F28, GLMS_XYLFT; Q8Z9S8, GLMS_YERPE; Q663R1, GLMS_YERPS; Q5NRH4, GLMS_ZYMMO; Q92ZK3, NODM1_RHIME; P25195, NODM2_RHIME; P94323, NODM_BRAJA; Q52846, NODM_RHILT;			_		_		_
Q9PH05, GLMS_XYLFA; Q87F28, GLMS_XYLFT; Q8Z9S8, GLMS_YERPE; Q663R1, GLMS_YERPS; Q5NRH4, GLMS_ZYMMO; Q92ZK3, NODM1_RHIME; P25195, NODM2_RHIME; P94323, NODM_BRAJA; Q52846, NODM_RHILT;			-				_
Q663R1, GLMS_YERPS; Q5NRH4, GLMS_ZYMMO; Q92ZK3, NODM1_RHIME; P94323, NODM_BRAJA; Q52846, NODM_RHILT;			<u> </u>		_ `		
P25195, NODM2_RHIME; P94323, NODM_BRAJA; Q52846, NODM_RHILT;			_				
							-
P08633, NODM_RHILV; Q6B308, YM084_YEAST;						22040,	MODIJ_KUTDI;
TOODS, NODEL MILEY, QUESTO, INDOQUEST,		100000,	NODII_ICITEDY,	Z0D300,	INUUT_IEAGI;	***************************************	

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